

### Abstract

**[0044]** A computed tomography (CT) image quality phantom for use in calibrating explosive detection systems (EDS) at airports. A foam core block containing up to five right cylinder rod members is positioned in a housing member which is adapted to be passed through an airport luggage scanning machine. The rod members are of different lengths in order to create different data slices for analysis. The housing has a lead-in member at least at one end in order to allow passage through an EDS more easily and provide accurate CT calibrating.